

12-14 November 2025



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Compliance Statement

The information contained in this presentation relating to financial forecasts, production targets, exploration targets, exploration results, Measured, Indicated and Inferred resource estimates, project execution, infrastructure and testing work, has been derived from the information in Lake's Kachi Project Phase One Definitive Feasibility Update Study Results ("DFS Addendum") and Lake's Updated Ore Reserve Statement ("Ore Reserve Update") both announced on ASX on 4 August 2025 and mineral resource update announced on ASX on 3 June 2025. Lake confirms that it is not aware of any information that materially affects the information included in the DFS Addendum or the Ore Reserve Update both announced on ASX on 4 August 2025 and mineral resource update announced on ASX on 3 June 2025 and all material assumptions contained in those announcements continue to apply and have not materially changed, including all material assumptions underpinning the production targets or forecast information derived from production target, and all technical parameters underpinning the estimates of mineral resource and ore reserves. On this basis, Lake confirms that the findings of Mr. Andrew Fulton, the Competent Person, in the DFS Addendum and the Ore Reserve Update both announced on ASX on 4 August 2025 and, in respect of Lake's mineral resource, in the mineral resource update announced on 3 June 2025, have not changed nor been modified in any material respects since those announcements.

About Lake Resources



Developing a world class global lithium asset in Argentina – the largest, independent development project across the lithium triangle with significant expansion potential

Kachi Project¹ Highlights

Location	Catamarca Province, Argentina					
Project Stage	 Phase 1 DFS completed in December 2023 Phase 1 DFS Addendum completed in August 2025 Exploitation EIA approval now expected in 2026 					
Products	Battery Grade Lithium Carbonate (>99.5% purity)					
Resources ²	 11.1 Mt LCE Measured and Indicated: 8.2 Mt LCE Inferred: 2.9 Mt LCE DFS Update Design basis: 249mg/L² Average brine concentration: 268mg/L³ 					
Project Execution Approach	 Phase 1 – 25 ktpa target plant capacity Potential Phase 2 – construction of second plant with additional total capacity of 25 ktpa (including additional expansion in subsequent phases) 					
Mine Life	25 years ²					



Major Milestones Achieved in 2025



De-Risking Kachi Through Strategic Advancement

Completed Kachi Phase One

DFS Addendum¹

JORC Update Increased Total
Resource To

11.1Mt LCE²

Ore Reserve Statement Confirmed Lithium Grade Of

268 mg/L³

Power Supply FEED⁴

Continue To Engage With

Offtake and Strategic Partners

Kachi Project Phase One DFS Addendum



Transformational Project Improvements: Significantly Enhanced Economics & Operational Efficiencies¹

US\$ 1.16B

US\$ 5,895/t

US\$ 1.5B
Pre-Tax NPV₁₀

22.5%
Pre-Tax IRR

249mg/L
Plant Design Basis

Resource Excellence & De-risking

- ✓ 8.2 Mt LCE Measured & Indicated resource (+12% vs. Original DFS)
- ✓ **11.1 Mt LCE** Total Resource (+5% vs. Original DFS)
- √ ~22% reduction in well count (vs. Original DFS)
- √ 15-20% reduction in plant footprint (vs. Original DFS)
- ✓ Completion of FEED marks achievement of critical derisking milestone for grid power

Technology and Cost Optimization

- ✓ Lilac Gen 4 IX technology improvements
 - ~90% recovery rate (+13% vs. Original DFS)
 - **50%** reduction in number of DLE modules
 - 39% lower DLE Capex and 40% lower DLE Opex
 - Greater throughput and longer IX media cycle
- ✓ Further Capex and Opex reduction possible due to improved brine concentration of 268 mg/L and Lilac Gen5 IX technology²

¹ Refer to ASX announcement dated 4 August 2025. ²Refer to Lilac announcement dated 28 October 2025.

Lilac DLE Technology Update – Gen 5 Ion Exchange



Higher performance than any competing DLE technology featuring lower costs with first quartile economics

- Lilac Solutions has developed Gen 5 lithium extraction technology that significantly outperforms conventional methods and addresses key industry challenges around cost, sustainability, and scalability
- The Gen 5 technology delivers breakthrough performance improvements across the following critical areas:
- ✓ Media productivity is 20x higher than alumina adsorbents
- ✓ **Lithium recovery rates** increased from 90% (Gen 4) to 95%+
- ✓ Extended IX media durability delivers up to 10,000 cycles before replacement
- ✓ Impurity rejection of 99.9%+ (like Gen 4 IX)
- ✓ **Solids tolerance allows passage of 70x** larger particles and avoids expensive ultrafiltration versus alumina adsorbents
- ✓ **10x lower water consumption** compared to alumina adsorbents
- ✓ Eluate quality: 7x higher lithium concentration and higher purity with 100x lower Li:B ratio than alumina adsorbents

LILMC	Gen 3 Lilac IX (Original DFS)	Gen 4 Lilac IX (DFS Addendum)	Gen 5 Lilac IX
Lithium Recovery	80%	90%	>95%
Media Productivity (kg LCE/day/m³)	550	800	1,500
IXM Cycle Life	2,200+	4,000+	10,000+

Potential incremental Kachi Capex / Opex savings with Gen 5 IX vs. Gen 4 IX

Kachi Exploitation Environmental Impact Assessment



Kachi has undergone a rigorous permitting process and has been optimized through multiple studies



- Lake continues to advance the Exploitation EIA approval process in close coordination with the Catamarca Environmental and Mining Ministries
- Recent efforts have been focused on technical collaboration to align environmental baselines and mitigation strategies with provincial expectations
- Lake is proactively supporting the Ministries by providing hydrological, ecological, and socio-environmental data to ensure that all environmental factors are properly evaluated, documented, and understood by regulatory authorities and local stakeholders
- Timing of Exploitation EIA final approval is determined and controlled by the government of Catamarca with which Lake remains in close contact and continuous dialogue
- While the government of Catamarca has committed to completing approval of the EIA by the end of 2025, Lake believes it is more likely approval will be received in 2026

Exploitation EIA Approval now expected in 2026

Argentina Macro and Political Update



President Milei's reform agenda received strong voter endorsement in October midterm elections, securing his ability to continue fiscal discipline and austerity policies

	Events	Summary	Implications for Lake
Macroeconomic Developments	2.08% Monthly Inflation (Sept)Continued Disinflation	 Remarkable progress from the 200%+ annual inflation rate Milei inherited upon taking office 	Positive
US Financial Support	US\$40 Billion packagePre-Election Timing	 The White House arranged US\$40 billion in support to help Argentina stabilize finances ahead of October 26 midterm elections US continued financial support conditioned on Milei's electoral performance 	Positive
Midterm Elections	 Decisive victory for Milei's Party (41%) Dramatic reversal from 13-point loss in September provincial elections 68% Voter turnout (record low) 	 La Libertad Avanza: Won 64 new seats (total 111) LLA becomes largest bloc in congress Opposition parties can no longer override presidential vetoes Positioned strongly for potential 2027 re-election Main Opposition Party: Won 46 new seats (total of 99) 	Positive
Financial Markets	 Capital markets rally on Milei's strong electoral performance 	 Triggered a bond rally and renewed investor optimism Pressure to accelerate structural reforms to increase 	Positive

Continued optimism and positive momentum for foreign direct investment in Argentina

Lithium Price Volatility in 2025

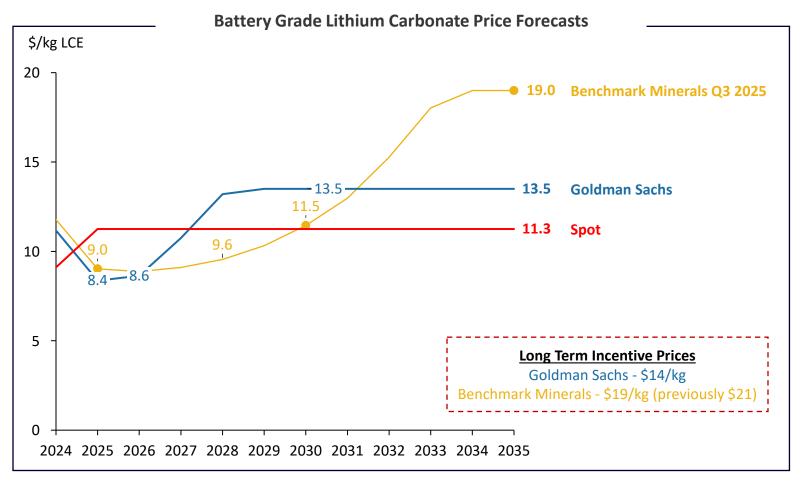


Q3 2025 witnessed extraordinary volatility driven by a strong news cycle fueling supply uncertainty

Lithium Carbonate (Li2CO3 EXW China, BG) ¹					
Latest Price (5 Nov)	\$11,025				
Change from Jul - Nov	+\$1,985/t (+22%)				

Lithium Hydroxide (LiOH EXW China, BG) ¹					
Latest Price (5 Nov)	\$10,525				
Change from Jul - Nov	+\$2,360/t (+29%)				

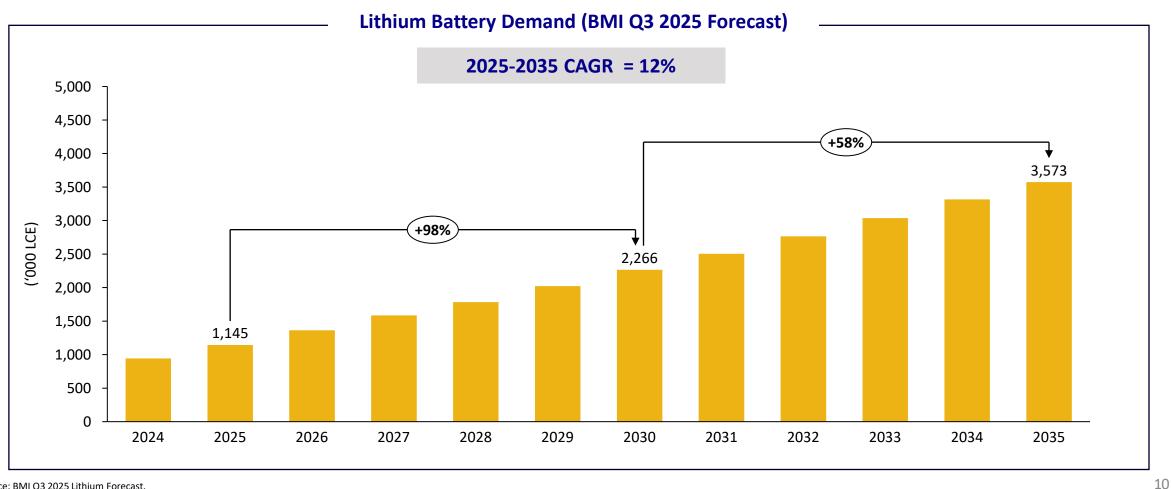
Spodumene (Li2O FOB Australia) ¹					
Latest Price (5 Nov) \$935					
Change from Jul - Nov	+\$258/t (+38%)				



Lithium Market Demand Outlook



Lithium demand expected to double between 2025 and 2035, driven by continued strong EV demand in Asia and Europe, Middle East BESS boom and additional policy actions



Lake Resources Financial Highlights Q3 2025



Strong Balance Sheet and Disciplined Capital Management



Financial Position & Liquidity

- Cash position of A\$18.0M at 30 September 2025 with zero debt
- Pro-forma quarter-end liquidity of ~A\$20.5M with
 A\$2.5M ATM proceeds received post-quarter



Cost Management

- Expected ~40% reduction in 2025 cash expenditures
 vs. 2024, exceeding projections
- Actively monitoring cash balance and minimizing outgoings



Capital Allocation

- Funds allocated to finalize Exploitation EIA, evaluate power options and advance strategic alternatives
- Recently completed business right-sizing improves liquidity outlook



Outlook

- Recent cost reductions and organizational right-sizing will further reduce costs in 2026 compared to 2025
- Current liquidity expected to extend through 2026

Lake Resources Strategic Priorities



Key areas of focus beyond 2025



Obtain EIA Approval



Continue to optimize technical and commercial power solutions



Engage with Offtake and Strategic Partners



Work towards FID



Continue to optimize cost structure and extend financial runway

Lake Resources Leadership Team



Experienced, wellcredentialed and highly motivated leadership team ready to deliver on Lake's strategy and accelerate the Company's next phase of Kachi development



Stu Crow Non-Executive Chairman





David Dickson Managing Director / CEO



Robert Trzebski Non-Executive Director



Don Miller Chief Financial Officer



Justin Olson Chief Legal Officer



Barbara Cozzi Country Manager, Argentina

Leadership experience acquired across technical, financial and project execution





















Thank You

Appendix

Mineral Resource Estimate Table



Measured May 2025 (to 600 m depth)

Unit	Sediment Volume (m³)	Specific Yield %	Brine Volume (m³)	Liters	Li (mg/l)	Li (Grams)	Li (Tonnes)	Tonnes LCE
Α	10,339,000,000	0.078	806,442,000	806,442,000	0.210	169,352,820,000	169,000	901,000
В	4,385,500,000	0.088	385,740,000	385,740,248,000	0.229	88,334,517,000	88,000	470,000
C to 400	7,561,800,000	0.068	514,202,000	514,202,400,000	0.230	118,266,552,000	118,000	629,000
Fan West to 400	11,088,000,000	0.095	1,053,360,000	1,053,360,000,000	0.220	231,739,200,000	232,000	1,233,000
K24 – K25 below 400	7,744,200,000	0.093	720,211,000	720,210,600,000	0.250	180,132,593,000	180,000	958,000
Total	41,118,500,000		3,479,955,000	3,479,955,248,000		787,825,682,000	788,000	4,191,000

Indicated May 2025 (to 600 m depth)

Unit	Sediment Volume (m³)	Specific Yield %	Brine Volume (m³)	Liters	Li (mg/l)	Li (Grams)	Li (Tonnes)	Tonnes LCE
A (South)	3,694,300,000	0.076	278,924,000	278,924,453,000	0.181	50,485,326,000	50,000	269,000
B (South)	1,489,000,000	0.075	111,544,000	111,543,670,000	0.179	19,927,611,000	20,000	106,000
C (South)	4,434,492,000	0.067	297,111,000	297,110,964,000	0.182	54,076,275,000	54,000	288,000
A (North)	3,075,200,000	0.095	292,144,000	292,144,000,000	0.232	67,776,824,000	68,000	361,000
B (North)	4,294,400,000	0.102	438,029,000	438,028,800,000	0.241	105,431,342,000	105,000	561,000
C (North)	4,115,300,000	0.102	419,761,000	419,760,600,000	0.182	76,396,429,000	76,000	406,000
D (North)	5,073,100,000	0.102	517,456,000	517,456,200,000	0.182	94,177,028,000	94,000	501,000
K21	8,304,500,000	0.065	541,394,000	541,393,608,000	0.192	103,822,511,000	104,000	552,000
Under Measured ABC 400 – 600	7,453,100,000	0.067	501,818,000	501,817,968,000	0.242	121,529,774,000	122,000	647,000
Under Measured Fan 400 – 600	3,775,900,000	0.063	239,343,000	239,343,351,000	0.242	57,850,485,000	58,000	308,000
Total	45,709,292,000		3,637,524,000	3,637,523,614,000	0	751,473,605,000	751,000	3,998,000
Combined Meas	sured + Indicated	l						
	86,827,792,000		7,117,478,861	7,117,478,861,140		1,539,299,286,959	1,539,299	8,189,000

Inferred May 2025

Unit	Sediment Volume (m³)	Specific Yield %	Brine Volume (m³)	Liters	Li (mg/l)	Li (Grams)	Li (Tonnes)	Tonnes LCE
Α	3,870,500,000	0.08	309,640,000	309,640,000,000	0.185	57,283,400,000	57,000	305,000
В	1,569,100,000	0.079	123,959,000	123,958,900,000	0.191	23,676,150,000	24,000	126,000
С	5,446,470,000	0.074	404,338,000	404,338,308,000	0.218	88,218,532,000	88,000	469,000
Fan North	9,109,970,000	0.102	929,217,000	929,216,940,000	0.232	215,578,330,000	216,000	1,147,000
Fan South	2,767,500,000	0.093	257,378,000	257,377,500,000	0.239	61,513,223,000	62,000	327,000
Under volcano	6,718,700,000	0.074	500,187,000	500,187,059,000	0.193	96,425,185,000	96,000	513,000
Total	29,482,240,000	-	2,522,621,000	2,522,620,663,000	-	542,294,093,000	542,000	2,885,000

Reserve Statement



Reserve Statement

Reserve Category	Years	Lithium (Tonnes)	LCE (Tonnes)	Average Lithium (mg/L)
Proved	1	4,390	23,310	270
Proved	2 – 7	28,360	150,850	270
Probable	8 – 25	85,060	452,540	267
Total	1 – 25	117,810	626,760	